

Fig. 2 is an illustration of a gallery of clip-art pictures according to the invention;

Fig. 3 is an illustration of the same gallery as illustrated in Fig. 2, but with one of the clip-art pictures having been selected;

Fig. 4 is a perspective drawing of a mobile phone of a type in which the present invention can be implemented;

Fig. 5 is an illustration of a message with in-line graphics (clip-art pictures), according to the invention; and

Fig. 6 is an illustration of the same message as illustrated in Fig. 5, but showing how the message would be displayed by a mobile phone not adapted to the invention (so that the clip-art pictures are not in-line, but are instead indicated by in-line tags).

#### BEST MODE FOR CARRYING OUT THE INVENTION

The invention provides a way of sending and receiving collections or galleries of (usually relatively simple) clip-art pictures over a wireless communication system (preferably the UMTS), and for storing the clip-art pictures, each of which may be thought of as a piece of so-called clip-art (as the term is used in the context of a computer-drawing application). Each gallery preferably contains eight such clip-art pictures, and a gallery according to the invention preferably has the same size and format as a Graphical Messaging System (GMS) picture (18x72 pixels), as disclosed in international application no.

PCT/EP00/02370, entitled *Communication Terminal Handling Messages Including Graphics*, filed March 16, 2000 (which has been incorporated by reference).

Referring now to Fig. 1, the invention is shown as including a clip-art picture manager 10 for creating, viewing, communicating, and saving clip-art pictures 12a, 12b, ..., 12h, which are grouped together into galleries 11, 12, ..., each gallery consisting of (preferably) eight clip-art pictures each of a size of 18x14 pixels so as to allow a gallery to be treated by the wireless communication system as a 72x28-pixel GMS picture. The clip-art picture manager 10 includes the following modules:

- gallery selector, for enabling a user to select a particular gallery (preferably of up to eight clip-art pictures), view each of the clip-art pictures in the gallery, and for selecting a gallery to be communicated as a message;
- clip-art picture editor, for enabling a user to select a particular clip-art picture (after first selecting a gallery), modify the clip-art picture, and then save the clip-art picture either in place of the original clip-art picture or as a clip-art picture in another (possibly new) gallery; and a

gallery communicator, for sending a selected gallery and for receiving a transmitted gallery (and, optionally, automatically recognizing a received object as a gallery), and for storing a received gallery in a memory location in the receiving device (and for asking the user which gallery to replace if insufficient memory is available to store the receive gallery without writing over an existing gallery), and also including a formatter for converting a clip-art gallery from the format in which the clip-art galleries are stored in the gallery folder to any of a number of other formats (such as e.g. from a 72x28 GMS picture format to a 86x52 screen saver format or to a 72x28 screen saver format, or to other formats in use). Note that

according to the invention, clip-art pictures can be sent only as part of a gallery, and a gallery is communicated as a picture message/media message.

The gallery selector includes a browser function (imparting to the clip-art picture manager a *browse mode*) enabling a user to view clip-art pictures in a gallery, as opposed to enabling a user to *edit* clip-art pictures or change the content of a gallery (the two latter actions being performed in *edit mode* using the clip-art picture editor). As indicated in Fig. 1, for sending a gallery, the gallery communicator can invoke the gallery selector to select a gallery, and can also invoke the clip-art picture editor for editing a clip-art picture (or pictures) in a gallery before sending the gallery (and not necessarily ever saving the edited gallery to the gallery folder).

Still referring to Fig. 1, the invention also provides, in the preferred embodiment, a graphic message handler 18 for handling in-line graphics messages (which include clip-art pictures from one or more galleries), described below, and, as part of a transceiver module 19, an automatic recognition module, for automatically recognizing that a received object (communicated message) includes a clip-art picture, based on a tag added to the communicated message by the sending entity. The transceiver with automatic recognition 19 directs a received message to either a text message handler 17 (if the message does not contain a clip-art picture), or to either the graphic message handler 18 (if the message is an in-line graphics message) or to the clip-art picture manager (if the message is a gallery).

In actual operation, a mobile phone (or other user equipment capable of wireless communication) in which the